

University of Kentucky Assistive Technology (UKAT) Project

A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY

For the Mechanics of Writing

Regular pencil or pen



Pencil or pen with adaptive grip



Adapted paper (e.g. raised line, highlighted lines)



Slantboard to create slanted writing surface



Use of prewritten words/phrases



Portable word processor to keyboard instead of write



Computer with word processing software



Portable scanner with word processing software



Voice recognition software to word process



(See Computer Access Continuum)



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A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY

For Computer Access

Keyboard using accessibility options



Word prediction, abbreviation/expansion to reduce keystrokes



Keyguard



Arm support (e.g. Ergo Rest)



Track ball/track pad/joystick with on-screen keyboard



Alternate keyboard (e.g. IntelliKeys, Discover Board, TASH)



Mouth stick/Head Master/Tracker with on-screen keyboard



Switch with Morse code



Switch with scanning



Voice recognition software



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A CONTINUUM OF CONSIDERATIONS

FOR ASSISTIVE TECHNOLOGY For Composing Written Material
Word cards/word book/word wall ◆
Pocket dictionary/thesaurus
•
Writing templates
↓
Electronic/talking electronic dictionary/thesaurus/spell checker •
Word processing with spell checker/grammar checker
↓
Talking word processing
↓
Abbreviation/expansion
↓

Word processing with writing supports

Multimedia software for expression of ideas

Voice recognition software



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A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY

For Communication

Communication board/book with pictures/objects/letters/words



Eye gaze board/frame



Simple voice output device



Voice output device with levels



Voice output device with icon sequencing



Voice output device with dynamic display



Device with speech synthesis for typing



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A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY

For Reading

Standard text



Predictable books



Changes in text size, spacing, color, background color



Book adapted for page turning (e.g. page fluffers, 3-ring binder)



Use of pictures/symbols with text



Talking electronic device/software to "pronounce" challenging words



Single word scanners (e.g. Seiko Reading Pen)



Scanner w/OCR and talking word processor



Electronic books



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A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY

For Learning/Studying

Print or picture schedule



Low tech aids to find materials (e.g. index tabs, color coded folders)



Highlight text (e.g. markers, highlight tape, ruler)



Recorded material (e.g. books on tape, taped lectures with number coded index, etc.)



Voice output reminders for assignments, steps of task, etc.



Electronic organizers



Pagers/electronic reminders



Single word scanners



Hand-held scanners



Software for concept development/manipulation of objects - may use alternate input device, e.g. switch, touch window



Software for organization of ideas and studying (e.g. Inspiration, Claris Works Outline, PowerPoint, etc.)



Palm computers



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A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY

For Math

Abacus/Math Line



Enlarged math worksheets



Low tech alternatives for answering



Math "Smart Chart"



Money calculator and Coinulator



Tactile/voice output measuring devices



Talking watches/clocks



Calculator/calculator with print out/calculator with large keys and/or large display



Talking calculator



Calculator with special features (e.g. easy fraction translation, etc.)



On-screen/Scanning calculator



Alternative keyboards (e.g. IntelliKeys)



Software with cueing for math computation or manipulation of objects



Voice recognition software



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A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY

For Recreation and Leisure						
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Toys adapted with Velcro™, magnets, handles, etc.



Toys adapted for single switch operation



Adaptive sporting equipment (e.g. lighted or beeping ball)



Universal cuff or strap to hold crayons, markers, etc.



Modified utensils (e.g. rubber stamps, rollers, brushes)



Ergo Rest or other arm support



Electronic aids to control/operate TV, VCR, CD player, etc.



Software to complete art activities



Games on the computer



Other computer software



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A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY

For Activities of Daily Living (ADLs)

Nonslip materials to hold things in place



Universal cuff/strap to hold items in hand



Color coded items for easier locating and identifying



Adaptive eating devices (e.g. foam handles, deep sides)



Adaptive drinking devices (e.g. cup with cut out rim)



Adaptive dressing equipment (e.g. button hook, elastic shoe laces, Velcro[™] instead of buttons)



Adaptive devices for hygiene (e.g. adapted toothbrush, raised toilet seat, etc.)



Adaptive bathing devices



Adaptive equipment for cooking



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A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY

For Mobility Walker Grab bars and rails Manual wheelchair Powered mobility toy (e.g. Cooper Car, GoBot) Powered scooter or cart

Powered wheelchair w/ joystick or other control

Adapted vehicle for driving



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A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY

For Control of the Environment

Light switch extension



Use of interface and switch to activate battery operated devices



Use of interface and switch to turn on electrical appliances (e.g. radio, fan, blender, etc.)



Radio/ultra sound to remotely control appliances



Use of electronic aid to daily living to control environment in connection with an augmentative communication device



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A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY

For Seating and Positioning

Standard seat at correct height and depth



Non-slip surface on standard seat to prevent slipping (e.g. Dycem)



Bolster, rolled towel, blocks to assist is positioning



Adapted/alternate chair, sidelyer, stander



Custom fitted wheelchair or insert



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A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY

For Vision

Eye glasses



Magnifier



Large print books



CCTV (closed circuit television)



Screen magnifier (mounted over screen)



Screen magnification software



Screen color contrast



Screen reader, Text reader



Braille translation software



Braille printer



Enlarged or Braille/tactile labels for keyboard



Alternate keyboard with enlarged keys



Braille keyboard and note taker



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A CONTINUUM OF CONSIDERATIONS FOR ASSISTIVE TECHNOLOGY

For Hearing Pen and paper Computer/portable word processor TDD for phone access with or without relay Signaling device (e.g. flashing light, vibrating pager) Closed captioning Real Time captioning Computer aided note taking Screen flash for alert signals on computer Phone amplifier Personal amplification system/Hearing aid FM or Loop system Infrared system